

## PATENT ABSTRACTS OF JAPAN

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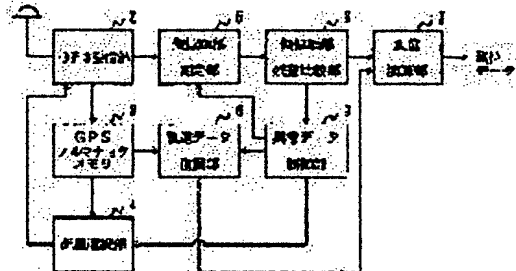
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## (54) GSP RECEIVER

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a GSP receiver which can continue highly accurate positioning when an abnormal data is mixed into the positioning operation due to abnormality of a satellite by detecting the abnormal data on the stage of pseudo distance and removing only the abnormal data from the positioning operation to continue normal operation and removing an abnormal satellite from the receiving satellites when it is not reset immediately and replacing the abnormal satellite with a normal one.

**SOLUTION:** The GAPS receiver comprises a pseudo distance residue comparing section 8, and an abnormal data control section 9 wherein a previous measurement of pseudo distance is subtracted from a current measurement of pseudo distance for each receiving satellite to determine a pseudo distance residue which is then compared between respective satellites to determine the difference of pseudo distance residue. An abnormal data is specified by making a decision whether the difference of pseudo distance residue exceeds a predetermined threshold or not thus removing the abnormal data.



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